

ABSTRACT OF THE DISCLOSURE

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5 An optical pickup includes a light source emitting a laser beam and an optical path
changing unit altering a traveling path of an incident beam. An objective lens, disposed on
an optical path between the optical path changing unit and an optical disk, focuses the
10 incident beam from the light source to form a light spot on the optical disk of the objective
lens. The optical pickup further includes a photodetector and an detecting-correcting unit,
arranged on the optical path between the optical path changing unit and the objective lens,
performing at least one of detecting the thickness of the optical disk and correcting
15 aberration caused by thickness variations of the optical disk. The objective lens includes a
first transmitting portion divergently transmitting an incident beam, where the first
transmitting portion is at a relatively near-axis region from an optical axis of the objective
lens. A second transmitting portion transmits the incident beam, where the second
transmitting portion is arranged facing the first transmitting portion. A first reflecting
portion condenses and reflects the incident beam from the first transmitting portion, where
the first reflecting portion is formed around the second transmitting portion. A second
reflecting portion condenses and reflects the incident beam from the first reflecting portion
towards the second transmitting portion, where the second reflecting portion is formed
around the first transmitting portion.